

### Additional File 6-RBM8a regulates Genes that are involved in risks of diseases

ASD	AD	ID	Schizophrenia	Crohn
A2M, ABCA12, ABI3BP, ACTA2, ADAMTS1, ADAMTS10, ADAMTS3, AHNAK2, ALDH1L2, ALK, ANGPTL2, ANK1, AP3B2, ATP2B2, ATP2B4, ATP7B, BAIAP2, BCAR3, BCH4, BRSK2, C17orf97, CACNA2D2, CACNA2D3, CADPS, CD14, CD9, CDHR3, CERK, CGNL1, CHRND, CIT, CMPK2, CUX2, DBH, DCLK3, DDB2, DDR2, DEPDC4, DEPDC7, ECI2, EFCAB6, EPHB3, EPHX2, EPPK1, ERMP1, ERV3-1, ETHE1, EXD3, EYS, FAM65C, FBLN7, FN1, FRAS1, GABRB3, GBA, GLI2, GPC5, GPRASP1, GPX8, GRB14, GRM7, GXYLT2, HLTf, HMHA1, HSPA8, ICA1, IL20RB, IQGAP2, IQGAP3, IQSEC3, IQUB, ISLR2, JPH3, KALRN, KCNA3, KCN1, KCNS3, KIF14, KIF1A, KIRREL2, KRT80, L3MBTL1, LDLR, LGR4, LHFPL3, LINGO2, LRP4, LTBP1, MANSC1, MAP3K1, MASP2, MDM2, MGAT5B, MICALCL, MKI767, MOV10, MRC2, MSH5, MYADML2, MYH10, MYO1E, MYT1L, NFASC, NGEF, NLGN1, NOS2, NOTCH3, NR2F1, NRXN2, NSUN7, NUAK1, OXCT1, PAPSS2, PAQR8, PAX5, PCDHB16, PDGFD, PEX5L, PHACTR1, PITPNM3, PLCD1, PLEKHA6, PLXNB2, PLXND1, PPM1D, PRKCA, PTGR1, PTPRG, PTPRK, PTPRM, PTPRN2, RAD21L1, RASSF5, RELN, REST, RIMS1, RIMS2, RPRD1A, RRP12, SCRIB, SEMA6A, SERPINB8, SFPQ, SGIP1, SH3RF3, SHANK2, SHOX2, SLC25A12, SLC8A3, SCLCO1C1, SLITRK5, SNTA1, SORBS2, SPATA13, SREBF2, STXBP3, SULF2, SYNE2, TAS2R10, TBC1D4, TBX18, TBX4, TCF7L1, TCP11L2, TECTA, TNIK, TPR, TSNARE1, TTK, UACA, UBTF, UFL1, UNC13A, UNC80, UPF1, VAV3, VPS13A, VWCE, ZC3H12B, ZMYND12,	A2M, ABCA1, ABCA12, ACE, ACHE, ACTA2, ADAM9, ADRA2A, APOE, ATXN1, BAG3, BCHE, BDNF, CAST, CCL2, CD14, CDK5R1, CDKN2A, CHRNA3, CHRNFB, CSF1, CYP39A1, DBH, DRD4, EBF3, FAS, FBP1, FDPS, FGF1, FOS, GBA, GBP2, GRB14, GRIN3A, GSTO1, GSTT1, HMMR, HSPG2, HTR6, IRF6, LIPA, MAPK8IP1, MAPT, MME, NEDD9, NGFR, NOS1, NRG1, NTRK2, PCK2, PLCE1, PPARGC1A, PTPLA, RASSF4, RELN, RXRA, S100B, SEPT3, SLC11A1, SNCA, SORL1, TAP1, TCF7L2, TCN2, VLDLR	ALK, ATP7B, CUX2, DBH, ERMP1, FRAS1, GPRASP1, GRB14, KCNA3, LHFPL3, MAP3K1, MGAT5B, MYO1E, MYT1L, NGEF, PHACTR1, SREBF2, UBTF, ZMYND12, ZNF540	ATP2B4, BAIAP2, CACNA1B, CACNA2D2, CACNB4, CAMK2B, CD14, DPYD, EPHX2, ESAM, LRRC48, MAN2A1, NCAN, NGEF, SLC8A1, TLE3, TSNARE1, ZNF804A	BSN, CCL2, IKZF1, REL, TNFSF4, ZFP36L1

ZNF117, ZNF404, ZNF540, ZNF804A